

BUJOREAN, G.; ARVAT, A., [deceased]; SERBANESCU, I.; POPESCU, P. C.;  
GRIGORE, S.; OPREA, Reghina; PADUREANU, O.; ROMAN, N.

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Author : Serbanescu, N., Margineanu, M., Boldea, Elena, Militescu, Lidia.

Inst : Communist Academy of the Rumanian People's Republic

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Orig Pub : Commun. Acad. RFR, 1957, 7, No 12, 1059-1064.

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1. Institutul de fizica atomica Bucuresti, Statiunea zoologica marina  
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(TUBERCULOSIS, PULMONARY) (CYCLOSERINE)  
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SO: Vestnik Moskovskogo Universiteta, Seriya Fiziko-Matematicheskikh i Yestestvennykh Nauk, No. 1, Moscow, Feb 1953, pp 151-157: transl. in W-29782, 12 April 54, For off. use only.

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In the book, "Scientific Conference on Problems of the Physiology and Pathology of Digestion 30 May-3 June 1951. Theses of reports. L., tip. LGU, 1951, s. 34-35.

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"The Sandy Soils of Southeastern Lithuania and their Influence on the Growth of a Pine Tree Crop";

**dissertation for the degree of Candidate of Agricultural Sciences  
(awarded by the Timiryazev Agricultural Academy, 1962)**

(Izvestiya Timiryazevskoy Sel'skokhozyaystvennoy Akademii, Moscow, No. 2, 1963, pp 232-236)

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PA 53/49T57

USSR/Medicine - Acetylcholine and Choline Oct 48  
Derivatives  
Medicine - Biochemistry

"Acetylcholine and Cholinesterase Content of the  
Cardiac Tissues in Various Animals," G. D. Smirnov,  
Ts. V. Serbenyuk, Inst of Evolutionary Morph  
Imeni A. N. Severtsov, Acad Sci USSR, 3 pp

"Dok Ak Nauk SSSR" Vol LXII, No 5

Tabulates comparative data on the reaction of the  
heart, or parts of the heart, to acetylcholine,  
and the cholinesterase content. Data indicates  
that cholinesterase activity is not a sign of  
a cholinergic condition in the myocardium, and is  
not directly connected with its innervation. Sub-  
mitted by Acad L. A. Orbeli, 27 Jul 48.

53/49T57

na

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G. M. Kozlovskoff

ASH-31A METALLURGICAL LITERATURE CLASSIFICATION

62-11137 GSK ONV 151



CA

11F

The role of the nervous system in the action of chemical factors of regulation of pancreatic juice secretion. Ts. V. Serbenyuk (M. V. Lomonosov State Univ., Moscow). *Doklady Akad. Nauk S.S.S.R.* 75, 145-8(1960).—The amt. and the enzymic content of the pancreatic juice secreted by cats (either by a direct collection from the duct or by perfusion of semi-isolated gland which is connected to the animal only by the nervous system) was detd. under excitation by chemicals and other stimuli (HCl, HCl-atropine, secretin, secretin-atropine, pancreasimine-HCl with or without atropine or secretin). The results confirm the idea of the leading role being played by the nervous system proper in the stimulating action of HCl. Secretin appears to act by the way of the sympathetic nerve excitation. Pancreasimine also operates by the action of the nervous system.

G. M. Kosolapoff

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SO: Vechernaya Moskva January-December 1952

KCSHTOYANTS, KH. S., SERBENYUK, TG. V., AVRUSHCHENKO, SH. I.

Pancreas

New facts on reflex regulation of inner secretion of the pancreas with the participation of chemical agents. Dokl. AN SSSR 86 No. 1, 1952.

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The possibility of destroying the inhibition of secretion of the pancreas in pain stimulation by means of antihistaminic preparations. Kh. S. Koshtoyants, M. A. Poskonova, and Ts. V. Serbenyuk (M. V. Lomonosov State Univ., Moscow). *Doklady Akad. Nauk S.S.S.R.* 95, 421-3 (1954).—While stimulation of the sciatic nerve in cats leads to hindering of secretion by the pancreas, as induced by introduction of HCl into the intestinal tract, introduction of an antihistaminic agent (Dimedrol) destroys this hindering action of the pain stimulus, and even promotes pancreatic secretion. G. M. Kosolapoff

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The possibility of action of antihistaminic substances on conditioned reflex secretion of the gastric glands. Kh. S. Koshtoyants and Ts. V. Serbenyuk (State Univ., Moscow). *Doklady Akad. Nauk S.S.S.R.* 109, 785-7 (1955).—Expts. with dogs provided with Pavlov stomach pouches, in which gastric secretion reflex was examd. after administration of histamine with or without antihistaminic substance (Dimedrol), showed that the conditional reflex secretion caused by distd. H<sub>2</sub>O or histamine is significantly blocked by the antihistaminic substance. Antergan gave a similar result. G. M. Kosolapov

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SERBENYUK, TS.V.; MALYUKINA, G.A.

All-Union conference on the physiology of fishes. Zool.zhur.  
35 no.6:949-952 Je '56. (MLRA 9:10)

(Fishes--Physiology)

SERBENYUK, TS.V., kand.biol.nauk; MANTEYFEL', Yu.B.

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Trudy sov.Ikht.kom. no.8:278-287 ' 58. (MIRA 11:11)

1. Kafedra fiziologii zhivotnykh Moskovskogo gosudarstvennogo universi-  
teta imeni M.V. Lomonosova.  
(Temperature--Physiological effect) (Fishes--Physiology)

SERBENYUK, TS.V.

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1. Biological-Pedological Faculty, Moscow State University.  
(Sense organs--Fishes) (Temperature sense)

SERBENYUK, TS.V.; SHISHOV, B.A.; KIPRIYAN, T.K.

Interrelations of automatic and reflex processes in the formation  
of the rhythmic activity of the respiratory center in fishes.  
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1. Biologo-pochvennyy fakul'tet Moskovskogo gosudarstvennogo  
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SERBENYUK, TS.V.; MANTEYFEL', Yu.B.

New method for local thermal stimulation of the skin surface in fishes. Nauch.dokl.vys.shkoly; biol.nauki no.1:60-62 '59.  
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SERBENYUK, TS. V.; POPOV, A. G.

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(FISHES AS LABORATORY ANIMALS)  
(ELECTROPHYSIOLOGY)

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of the respiratory act in fishes.. Nauch. dokl. vys. shkoly; biol.  
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(SALIVARY GLANDS, physiology,

eff. of gastric stimulation in dogs)

(STOMACH, physiology,

eff. of stimulation on salivation in dogs)

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[Serbeniuk, V.M.]; CHIGRINA, Z.G. [Chyhrina, Z.H.]

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ovaries to hormones. Fiziol. zhur. [Ukr.] 8 no.4:524-531 J1-Ag '62.  
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1. Kafedra normal'noy fiziologii Charnovitskogo meditsinskogo  
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NICOLAE, Badea; IONESCU, Elena; OPROIU, Tereza, ing.

High valorization of raw materials in light industry.  
Probleme econ 17 no.9:159-162 S '64.

1. Technical Director, Ready-made Clothes and Knitwear Factory, Bucharest (for Stanescu).
2. Chief Engineer, Ready-made Clothes and Knitwear Factory, Bucharest (for Livianu).
3. Technical Director, the "30 Decembrie" Textile Works, Arad (for Serbescu).
4. Head of the Production Office, the "30 Decembrie" Textile Works, Arad (for Spitzer).
5. Director, the "Intex" Flax Weaving Mill, Paulesti (for Nicolae).
6. Chief Engineer, the "Intex" Flax Weaving Mill, Paulesti (for Ionescu).
7. Head of the Technical Office, the "Intex" Flax Weaving Mill, Paulesti (for Oproiu).



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Standard for the calf leather soles fastened with wooden pegs.  
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SERBEZOV, R.

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Vol. 2, No. 2, 1952, Sofiya, Bulgaria.

SO: Monthly List of East European Accessions L.C. Vol. 2, Nov. 1953, Uncl.

SHINDAROV, L.; SERBEZOV, V.

Problem of Q fever in Bulgaria. Suvrem. med., Sofia 8 no.11:26-35 1957.

1. Iz Republikanskata protivoepidemichna stantsia. (Gl. lekar: L. Shindarov).

(Q FEVER, epidemiology,  
in Bulgaria (Bul))

BULGARIA

Lt. Col. V. HAEV, MC and Lt. Col. V. SERBEZOV, MC

"Etiological Pathological Diagnosis of the Influenza Epidemic of January - February 1962."

Sofia, Voenno Meditsinsko Delo, Vol 18, No 1, Feb. 1963; pp 44-45.

Abstract: Virologic and serologic study methods are described which permitted diagnosing the influenza epidemic in question as being of an A<sub>2</sub> type. From 20 nasal washings of patients, 10 virus strains were isolated in embryonated eggs, diagnosed serologically. Best incubation temperature was surprisingly low, 32 to 34° centigrade; 37° was least conducive to virus multiplication. No references.

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SERBEZOV, V.; OGIANOV, D.; MATOVA, E.; ALEXANDROV, E.; MAKAVEYEVA, E.;  
NEDELTSEVA, N.

Detection of ornithosis virus by the fluorescent antibody method,  
using convalescent anti-virus abortion sheep sera. J. hyg. epidem.  
(Praha) 9 no.2:253-255 '65.

1. Higher Institute of Military Medicine, Veterinary Institute of  
Infectious and Parasitic Diseases, State Epidemiology Station,  
Sofia.



BULGARIA

Vl. St. SERBEZOV, Chair of Military Epidemiology and Hygiene,  
(Katedra po voenna epidemiologiya i khigiena) Chief (nachalnik) Col  
At. MALEEV, Military Medical College (VVMi [Voenni Vysshi Meditsinski  
Institut],) [Sofia.]

"Serologic Survey of Q-Fever Among Occupationally Exposed Persons and  
Healthy Blood Donors."

Sofia, Suvremenna Meditsina, Vol 14, No 2, 1963; pp 39-44.

Abstract [English summary modified]: Complement-fixing antibodies to  
R. brunetti were found in 32 out of 197 sera from persons considered  
occupationally exposed (hunters, workers in slaughterhouses, plants  
processing raw milk, leather & hides, wool; animal keepers) in various  
parts of Bulgaria 1956-1959; and in 9 out of 189 sera from blood  
donors employees of 5 Sofia establishments in 1960. Three tables;  
3 Bulgarian, 10 Soviet, 3 Western references.

SERBEZOV VL.

- 2/2 -

Boris, Eugene, Vol 4, No 6, Kor-Deo 61. (continued)

274

*S. capris*

10. "The Evolution of Nomenclature by Means of Formal Axioms," D. RIMOV and Dr. VIKTORIA of the Scientific-Research Institute of Zoology and Microbiology, pp. 54-55.
11. "An Attempt to Establish the Frequency of the Neobiontic Thread in Animals (Animals of the Class of Insects)," A. RIMOV and Dr. VIKTORIA, pp. 56-57.

SERBIN, A.

Flax

Leaders in harvesting flax with combines. MTS, 12, No. 6, 1952.

Monthly List of Russian Accessions, Library of Congress October 1952. UNCLASSIFIED.

SERBIN, A.A.

Prepare organic fertilizers properly. Zemledelie 26 no.1:  
37-41 Ja'64. (MIRA 17:5)

1. Krymskaya oblastnaya gosudarstvennaya sel'skokhozyaystvennaya  
opytnaya stantsiya.

SEKUL, A. I.

"Projective Geometry of Linear Congruence." Sub 1 Mar 51, Moscow G. I. Ibram  
Pedagogical Inst.

Dissertation presented for science and engineering degrees in Moscow during 1951.

SC: Doc. No. LCO, 2 Mar 55.

SMITH, A.I.

Generalized Riemann boundary value problem on a finite Riemann surface. Uch. zap. Kaz. un. 123 no.9:86-94 '63.

General boundary value problem on a finite Riemann surface.  
Ibid.:95-104

(REF. 17:11)

SERBIN, A.I. (g. Kazan')

Riemann's boundary value problem for generalized analytic functions  
on a closed Riemann surface. Izv. vys. ucheb. zav.; mat. no.4:131-  
143 '64. (MIRA 17:9)

SERBIN, Aleksandr Nikolayevich; MALININA, G., red.; NAZAROVA, A.,  
tekh. red.

[Optimistic Africa] Optimisticheskaya Afrika. Moskva, Izd-vo  
"Znanie," 1962. 63 p. (MIRA 16:3)

1. Korrespondent "Ogon'ka" (for Serbin).  
(Africa, French West—Description and travel)



SERBIN, A.P.; BLINOV, N.I.

Certain properties of cast graphitized steel. Lit. proizv. no.3:25-26  
Mr '61. (MIRA 14:6)

(Steel castings)

SERBIN, A.P.

Effect of cerium on the crystallization and properties of  
45L steel. Lit. proizv. no.7:26-29 J1 '63. (MIRA 17:1)

SERBIN, G.

Simple, reliable, beautiful. Za rul. 18 no.11:18 N'60.

(MIRA 13:11)

1. Master proizvodstvennogo obucheniya Yaroslavskogo avtomotokluba  
Dobrovol'nogo obshchestva sodeystviya armii, aviatsii i flotu.  
(Yaroslavl--Automobiles--Models)

VERZILIN, N.M., redaktor; SERBIN, G.M., redaktor; GARNEK, V.P., tekhnicheskii redaktor

[Teachings of I.P.Pavlov in the school; the experience of teachers and general conclusions] Uchenie I.P.Pavlova v shkole; opyt uchebnoi i ego obobshchenie. Moskva, Izd-vo Akad. pedagog. nauk RSFSR, 1955. 212 p. (MIRA 8:7)

(Pavlov, Ivan Petrovich, 1849-1936)

KAZAKOVA, Ol'ga Vasil'yevna; SERBIN, G.M., redaktor; SOKOLOVA, R.Ya.,  
tekhnicheskiiy redaktor

[Practical lessons on the subjects: Organs of digestion. Metabolism]  
Metodika urokov po temam: Organy pishchevarenia. Obmen veshchestv.  
Moskva, Izd-vo Akademii pedagog. nauk RSFSR, 1956. 95 p. (MLRA 9:11)  
(METABOLISM) (DIGESTIVE ORGANS)

SERBIN, G.M.

Conference on problems in school hygiene. Gig.i san. 25  
no.7:103-106 JI '60. (MIRA 14:5)  
(SCHOOL HYGIENE)

SOURCE CODE: UR/0056/66/051/006/1665/1668

ACC NR: AP7003203

AUTHOR: Yesel'son, B. N.; Dyumin, N. Ye.; Rudavskiy, E. Ya.; Serbin, I. A.

ORG: Physicotechnical Institute of Low Temperatures, Academy of Sciences, Ukrainian SSR (Fiziko-tekhnicheskiy institut nizkikh temperatur Akademii nauk Ukrainiskoy SSR)

TITLE: Velocity of first sound in  $\text{He}^3$  -  $\text{He}^4$  solutions

SOURCE: Zh eksper i teor fiz, v. 51, no. 6, 1966, 1665-1668

TOPIC TAGS: liquid helium, sound propagation, acoustic speed, temperature dependence, superfluidity

ABSTRACT: The authors describe measurements of the velocity of first sound in solutions of helium isotopes with  $\text{He}^3$  content up to 20% in the temperature range 1.6 - 4.0K. The purpose of the investigation was to determine various properties of the solutions, especially the velocity of fourth sound. A pulsed ultrasonic method was used for the velocity determination. The carrier frequency was 1 MHz, the pulse duration was 30  $\mu\text{sec}$ , and the pulse repetition frequency was 200 Hz. The results show that at constant temperature the sound velocity varies linearly with the  $\text{He}^3$  concentration. An explanation is proposed for this linearity. The temperature dependence of the velocity of first sound shows clearly the singularities corresponding to the transition of the solution into the superfluid state, and the values obtained for the  $\lambda$ -point temperatures from these temperature dependences agrees well with the published data. Orig. art. has: 2 figures, 5 formulas, and 1 table.

SUB CODE: 20/ SUBM DATE: 18Jul66/ ORIG REF: 002/ OTH REF: 005

Card 1/1

L 22915-66 EWT(1)/EWT(m)/EPF (n)-2/ETC(m)-6 JD/NW/GG  
 ACC NR: AP6006798 SOURCE CODE: UR/0386/66/003/001/0032/0035

AUTHORS: Yesel'son, B. N.; Dyumin, N. Ye.; Rudavskiy, E. Ya.; Serbin, I. A.

ORG: Physicotechnical Institute of Low Temperatures, AN UkrSSR, Khar'kov (Fiziko-tehnicheskij institut nizkikh temperatur AN UkrSSR)

TITLE: Experimental observation of fourth sound in  $\text{He}^3$ - $\text{He}^4$  solutions

SOURCE: Zhurnal eksperimental'noy i teoreticheskoy fiziki. Pis'ma v redaktsiyu. Prilozheniye, v. 3, no. 1, 1966, 32-35

TOPIC TAGS: sound propagation, liquid helium, quantum liquid, superfluidity

ABSTRACT: The purpose of the investigation was to check experimentally the existence of fourth sound, a special type of wave propagating only through the superfluid component while the normal component remains immobile, which was observed experimentally in liquid  $\text{He}^4$  and whose existence in  $\text{He}^3$ - $\text{He}^4$  solutions was recently considered theoretically by D. G. Sanikidze and D. M. Chernikova (ZhETF v. 46, Card 1/3



L 22915-66

ACC NR: AP6006798

1123, 1964). The main part of the apparatus was a cylindrical resonator, 20 mm in diameter and 10 mm long, filled with a rouge filter consisting of particles  $\sim 0.5 \mu$  in size compressed to  $40 \text{ kg/cm}^2$  (filter porosity  $\sim 60\%$ ). The sound transmitter and receiver were placed on opposite sides of the filter. The resonator was placed in a special vessel in which the investigated solution was condensed. The vessel itself was placed in a bath of  $\text{He}^4$ , the temperature of which was lowered by pumping on helium vapor. Pulses with rise time  $0.1 \mu\text{sec}$ , repetition frequency 200 cps, duration  $2 \mu\text{sec}$ , and amplitude 400 V were fed from the blocking generator to the transmitter, which was located in the lower part of the receiver. The speed of the fourth sound could be determined from measured time interval necessary for the pulse to traverse the length of the filter. Multiple scattering was allowed for by means of an empirical formula. The experimental results were found to be in fully satisfactory agreement with theory of D. G. Sanikidze and D. M. Chernikova. Tentative measurements of the absorption coefficient indicate that it increases rapidly with temperature, making measurements near  $\lambda$  point difficult. Work is now continuing in a broader temperature concentration range,

Card

2/3

L 22915-66  
ACC NR: AP6006798

with an aim at obtaining information on the behavior of  $\text{He}^3$  and  $\text{He}^4$  atoms in narrow channels. The authors thank D. G. Sanikidze for useful discussions conducted with the organization of the research.  
Orig. art. has: 1 figure.

SUB CODE: 20/ SUBM DATE: 15Nov65/ ORIG REF: 003/ OTH REF: 008

Card

3/3 *KW*

S/133/61/000/002/013/014  
AO54/AO33

AUTHOR: Serbin, I.G., Engineer

TITLE: Scarfing of Tube Billets at the Zavod Imeni Dzerzhinskogo (Plant Imeni Dzerzhinskiy)

PERIODICAL: Stal', 1961, No. 2, p. 177

TEXT: In 1958, the first scarfing tests were carried out with three batches of tube billets, made of low-carbon structural steel (10,20,35 grades), weighing 61.4, 62.3 and 62.5 t. After successful tests this cleaning method is now applied in combination with pneumatic piercing. Tests are also going on to apply scarfing to high-carbon steels of 45,55,  $\Delta T_0$  (= D tr) and other grades. Tests on these various steels with different depths and area of cleaning made it possible to study the behaviour of the heated surface layer of the metal during cleaning and after the secondary heating before rolling on the stand. The best scarfing results were obtained with tube billets over 150 mm in diameter. With tube billets of smaller diameter and when the clean-

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S/133/61/000/002/013/014  
A054/A033

Scarfig of Tube Billets at the Zavod Imeni Dzherzhinskogo (Plant Imeni Dzherzhinskiy)

ing area is larger than half the surface of the product to be cleaned, the surface layer of the metal shows shear in the direction of tangential forces, i.e., at an angle of  $45^{\circ}$  to the cross section of the tube billet. Good results were obtained when scarfing intermittently, and when cleaning in thin strips. Scarfig is applied regularly at this plant. By April 1960, 7, 853 melts had been cleaned in this way, reducing labor for tube processing 3.5 times. ✓

ASSOCIATION: Metallurgicheskiy zavod im.Dzherzhinskogo (Metallurgical Plant imeni Dzherzhinskiy)

Card 2/2

I. 04047-67 EIT(m)/EIP(t)/ETI/ETP(k) IJP(c) JD/HW

ACC NR: APO01515

SOURCE CODE: UR/0383/66/000/004/0035/0036

AUTHOR: Rudoy, V. S. (Candidate of technical sciences); Chakmarev, I. A. (Candidate of technical sciences); Sukomnik, I. M.; Geppa, S. A.; Serbin, I. V.; Yermolov, I. V.; Chizh, V. A.; Derbasov, V. I.; Kurilenko, V. Kh.; Kirvalidze, N. S.; Pasternak, N. M.

ORG: none

58

TITLE: Improving the plasticity of Kh18Ni10T tube steel by vacuum-arc melting

SOURCE: Metallurgicheskaya i gornorudnaya promyshlennost', no. 4, 1966, 35-36

TOPIC TAGS: austenitic steel, plasticity, ~~steel plasticity improvement~~, vacuum arc, ~~vacuum arc melting~~, METAL TUBE / Kh18Ni10T STEEL

ABSTRACT: The plasticity of conventionally arc melted and vacuum arc melted Kh18Ni10T steel was tested by rolling conical specimens in a piercing mill and by torsion tests, both at 1000—1300C. It was found that in piercing, the critical reduction depends primarily upon the  $\alpha$ -phase content. Metal with a high  $\alpha$ -phase content cannot be easily pierced at a temperature of 1200C or higher regardless of the melting method. The content of impurities and gases is of secondary importance. In torsion tests, plasticity was found to depend mainly upon the metal purity. Inasmuch as vacuum arc melting yields steel of a higher purity, its plasticity is also higher than that of conventionally melted steel. The increase of  $\alpha$ -phase con-

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UDC: 669.15—194.621.774.35

L 03947-67

ACC NR: AP6031515

tent up to a certain limit does not substantially affect the plasticity of Kh18N10T steel, but an increase over this limit lowers the steel plasticity. Orig. art. has: 2 figures. [ND]

SUB CODE://,13 / SUBM DATE: none/ ORIG REF: 002/

BEDA, N.I., inzh.; RYZHKOV, P.Ya., inzh.; GORYUCHKO, I.G., inzh.;  
MASHKOVA, A.K., inzh.; Primali uchastiye: LIFSHITS, S.I.;  
KOTOV, N.K.; KOSHCHEYEV, A.D.; CHUVICHKINA, N.K.; KOLPOVSKIY,  
N.M.; GOLOVKO, O.F.; LUDENSKIY, A.M.; SERBIN, I.V.; IVANOV, I.T.;  
ALEKSEYEVA, N.V.; MENDEL'SON, N.Ya.

Quality of pipe billets and pipes made of killed converter steel.  
Stal' 21 no.9:824-825 S '61. (MIRA 14:9)

1. Metallurgicheskiy zavod im. Petrovskogo i Truboprokatnyy  
zavod im. Lenina.

(Pipe, Steel)

L 20784-66 EWP(k)/EWT(m)/T/ENA(d)/EWP(w)/EWP(t) JD/HW  
ACC NR:AP6004647 SOURCE CODE: UR/0383/65/000/005/0047/0049

AUTHOR: Rudoy, V. S.; Chekmarev, I. A.; Serbin, I. V.; Sukonnik, I. M. 41

ORG: none 39

TITLE: Production of tubes of EI847 highly heat-resistant complex-alloyed steel B

SOURCE: Metallurgicheskaya i gornorudnaya promyshlennost', no. 5, 1965, 47-49

TOPIC TAGS: metal tube, alloy steel, heat resistant steel, electroslag melting/EI847 highly heat-resistant complex-alloyed steel

ABSTRACT: EI847 (Kh16Ni15M3B) austenitic Cr-Ni-Mo steel, while highly heat-resistant, displays comparatively low plastic properties. In this connection, the authors tested different techniques of producing melts of this steel, with the object of uncovering a technique assuring an improved plasticity of the steel so as to make it more suitable for use in the fabrication of high-temperature tubes. Metallographic examination, chemical analysis, and investigations of plasticity in the presence of elevated temperatures as well as the hot rolling of experimental and industrial sets of tubes from six different melts containing identical amounts of Cr, Ni, Mn and Si plus 0.05-0.5% C, 0.007-0.015% S, 0.012-0.17% P, 0.49-1.0% Nb, 7.4-15.0% Mo established that the metal produced by the electroslag melting method displays the optimal plasticity at elevated temperatures (up to 1250-1275°C). It

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UDC: 621.774.669. 16-194



L 20784-66

ACC NR: AP6004647

2

was furthermore finally established that the Nb content and the Nb/C ratio, within the limits investigated, do not affect plasticity. The lowest plasticity characteristics are displayed by the melts produced from charge materials to which scrap metal had been added, owing to excessive contamination with nonmetallic impurities. The principal type of defects is internal and external cracks at the sites of the pile-ups of nonmetallic inclusions representing stress concentrators. Improvements in rolling technology did not produce the desired results and thus the principal factor affecting the plasticity of EI847 steel is its melting technology. The optimal melting technology, as developed at the Dneprospetsstal' Plant, requires the use of extra-pure fresh charge materials and electroslag melting. Orig. art. has: 4 figures and 3 tables.

SUB CODE: 11, 13/ SUM DATE: none/ ORIG REF: 003/ OTH REF: 000

Card 2/2 *JP*

SERBIN, M.

Fire extinction under the conditions of the Far North. Pozh.  
delo 7 no.9:26 S '61. (MIRA 14:11)

1. Komandir pozharnogo otdeleniya, poselok Atka, Magandanskaya  
oblast'.  
(Russia, Northern Fire departments Equipment and supplies)

S/229/63/000/001/002/004  
E202/E192

AUTHORS: Aristov, V.S., Candidate of Technical Sciences,  
Kudinov, Ye.D., Engineer, and Serbin, N.G., Engineer

TITLE: Inspection of normalized carbon steel 20C (20S) welds

PERIODICAL: Sudostroyeniye, no.1, 1963, 51-54

TEXT: This cheap steel of not less than 35 kg/mm<sup>2</sup> yield strength was investigated for weldability and its potential use in ship building. The investigation included: determination of the mechanical properties of the seam on Gagarin samples and the weld joint using destructive bending tests; determination of the impact strength of the seam metal as well as the zone of thermal penetration at temperatures above and below freezing point; macro- and micro-studies of the seam metal and the zone of thermal penetration; determination of the brittleness temperature of the seam metal; bending tests on samples with a longitudinal bead; tests for cracking using the method of K.G. Nikolayev (Svarochnoye proizvodstvo, no.9, 1956); and testing of welded beams for dynamic loads. Hardness tests were also carried out through the zone of thermal penetration, seam and the parent metal for  
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Inspection of normalized carbon ...

S/229/63/000/001/002/004  
E202/E192

manually and automatically welded samples. It was concluded on the basis of the above tests that using automatic welding on the above steel with a welding electrode CB -08A (Sv-08A) [according to ГОСТ 2246-60 (GOST 2246-60)] combined with a flux mark OCL -45 (OSTs-45), and in the case of manual welding using electrodes УОНИ 13/45 (UONI 13/45), secures welds of good strength properties at static load and withstanding well the effects of dynamic loads. It was further concluded that this steel does not show any crack forming tendencies during welding in conditions of temperatures down to -25 °C. The welding did not cause any lowering of the metal strength in the zone of thermal penetration nor did it reduce the impact strength as a result of the thermal cycle of welding. There are 4 figures and 3 tables.

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